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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PRELIMINARY AMENDMENT

Atty. Docket No. (Opt.)
LANI1100

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TC 1700

Applicant
Pierre Jorgensen

Application Number
09/405,934

Filed
September 27, 1999

For
Deep Conversion Combining the Demetallization
and the Conversion of Crudes, Residues or Heavy
Oils into Light Liquids with Pure or Impure
Oxygenated Compounds

Group Art Unit
1764

Examiner
Preisich, N.

Honorable Asst. Commissioner
of Patents
Washington, D.C. 20231

Dear Sir:

Certificate of Mailing Under 37 C.F.R. 1.10

I hereby certify that this correspondence is being deposited with
the United States Postal Service as Express Mail to Addressee in
an envelope addressed to: Assistant Commissioner of Patents,
Washington, D.C. 20231 on November 14, 2001.

Janice Pampell
Janice Pampell

Please cancel claims 2-20 without prejudice or disclaimer to the subject matter recited therein.

Please amend claim 1 as follows:

1. (amended) A process for the conversion of hydrocarbons containing residues or heavy distillates which may be laden with impurities into lighter liquid products that may be distilled, the process comprising:
- preheating a hydrocarbon load to a first temperature, wherein the load comprises one or more hydrocarbons selected from the group consisting of residues and heavy distillates;
 - injecting the load into a reactor, wherein the reactor is operated at a second temperature, wherein the second temperature is less than about 520 C and about 20 C-25 C greater than the first temperature;
 - mechanically shearing the molecules of the load with a jet to produce hydrocarbons comprising liquid hydrocarbons, substantially no gaseous hydrocarbons, and substantially no coke or soot.